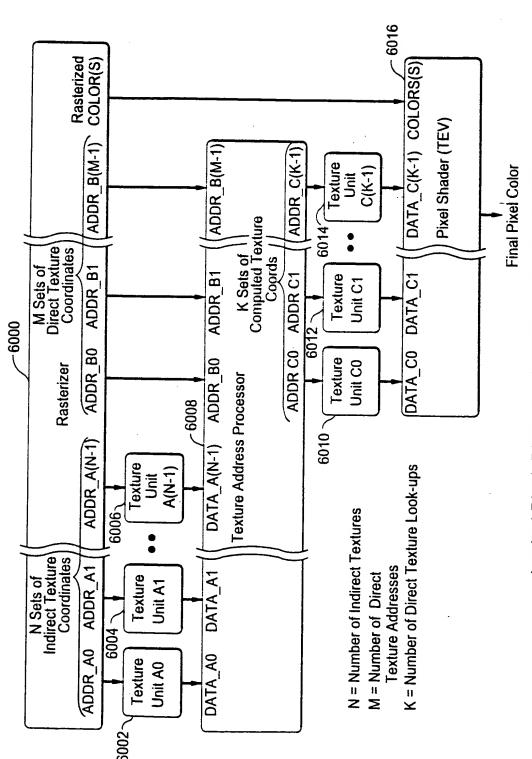


Fig. 5 EXAMPLE GRAPHICS PROCESSOR FLOW



Logical Block Diagram of Indirect Texture Processing Fig. 6

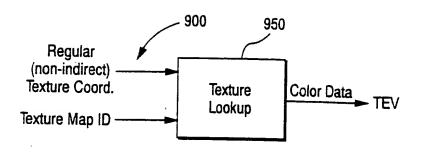


Fig. 7A
REGULAR TEXTURE LOOKUP

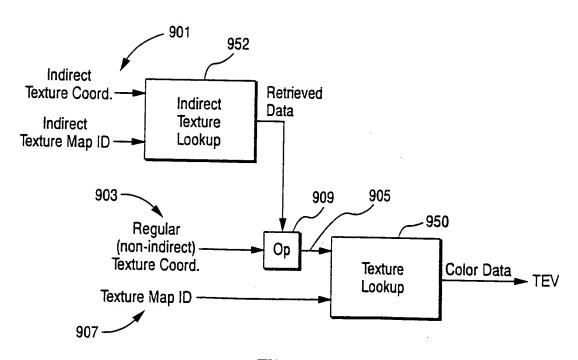


Fig. 7B

H/joy/723-849-F 7.dwg

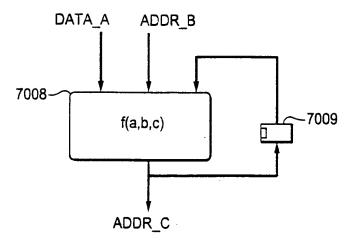


Fig. 9

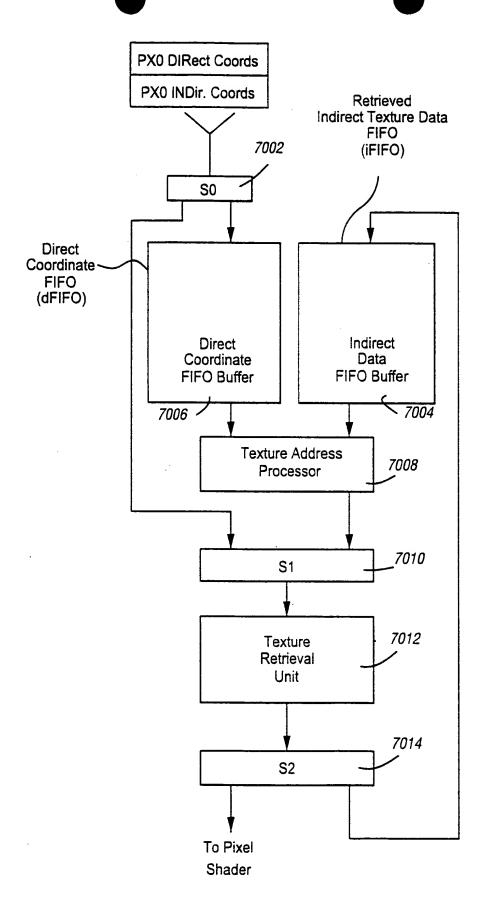


Fig. 10A

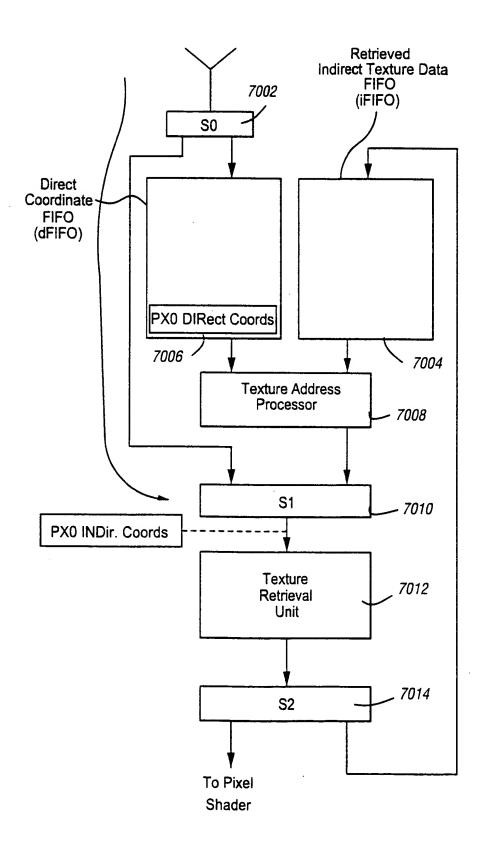


Fig. 10B

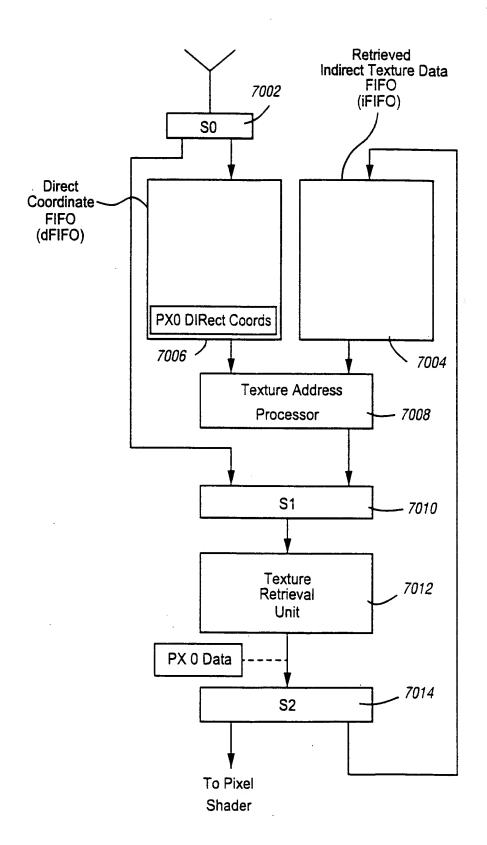


Fig. 10C

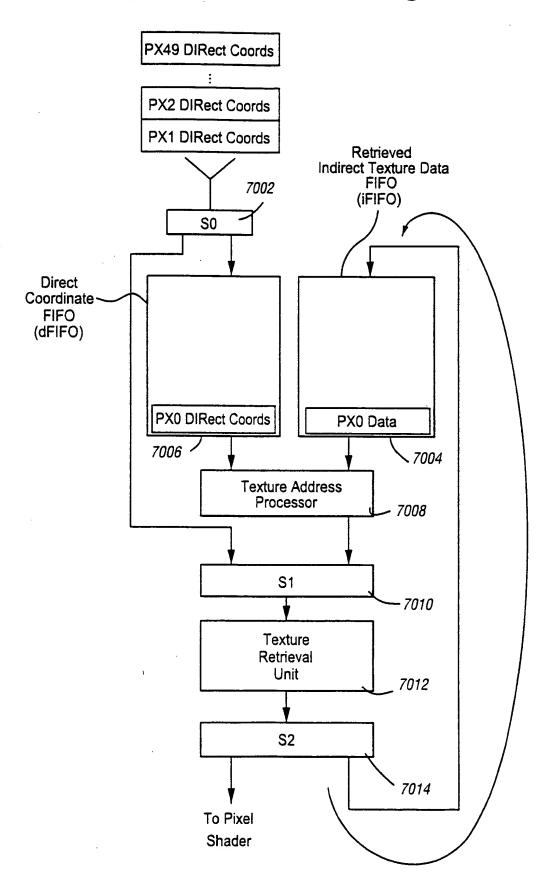


Fig. 10D

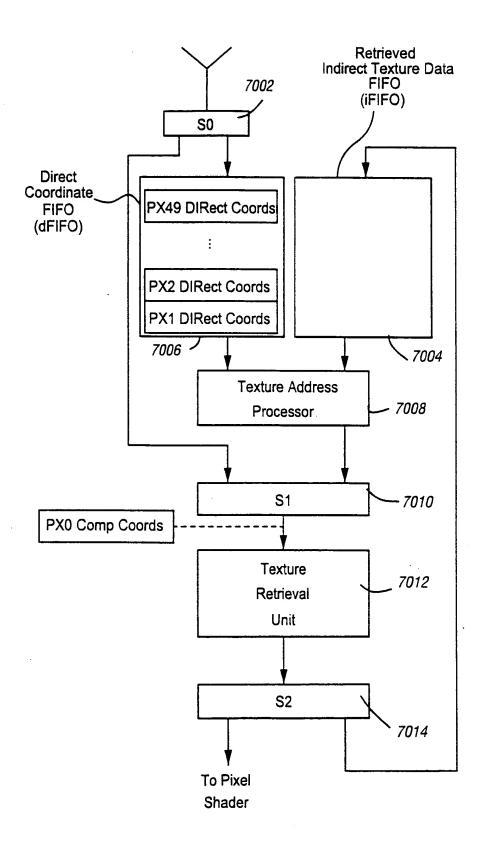


Fig. 10E

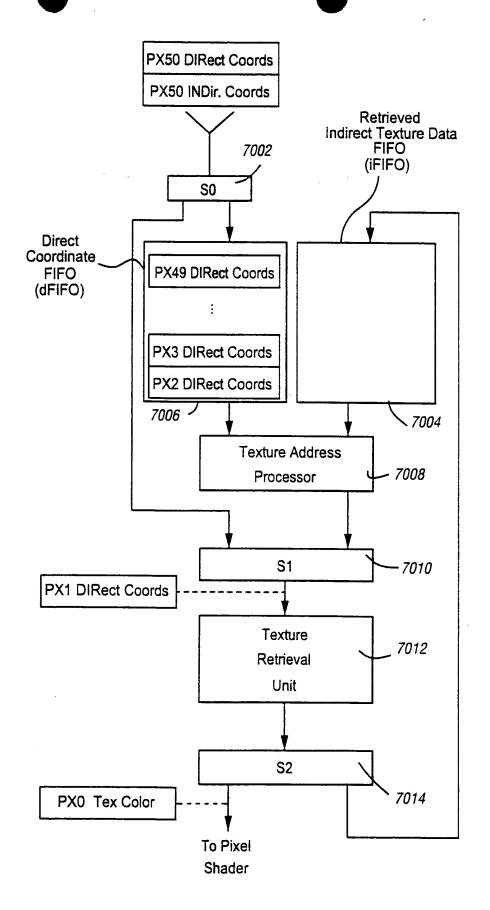


Fig. 10F

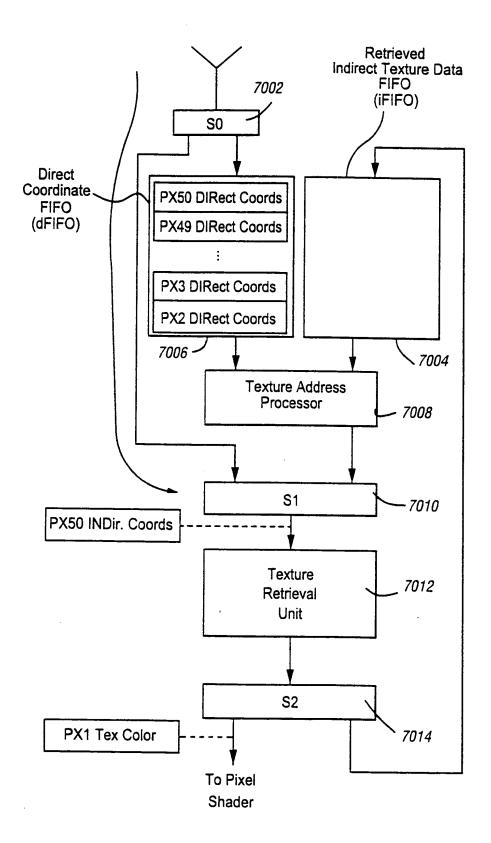


Fig. 10G

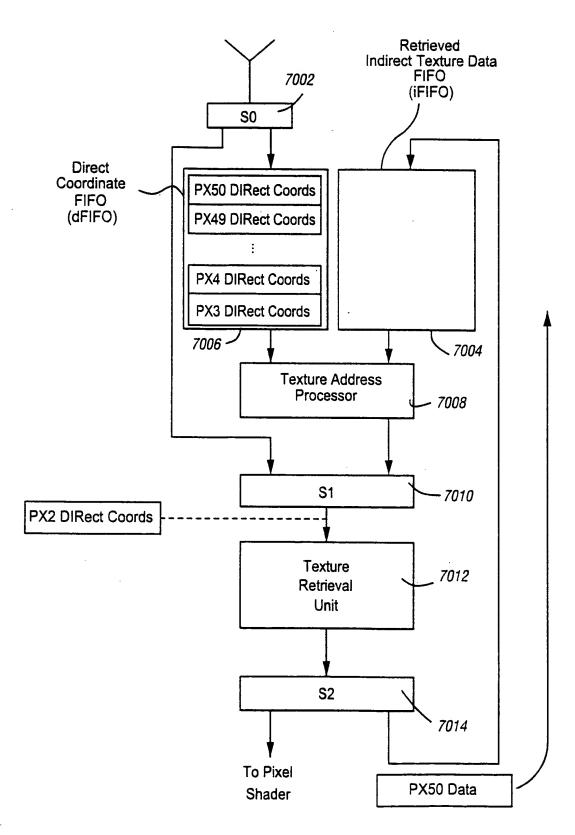


Fig. 10H

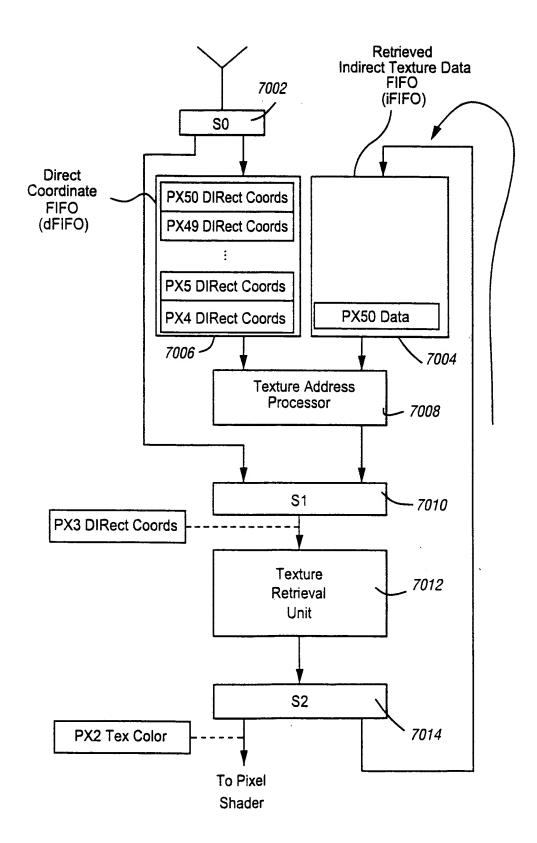


Fig. 101

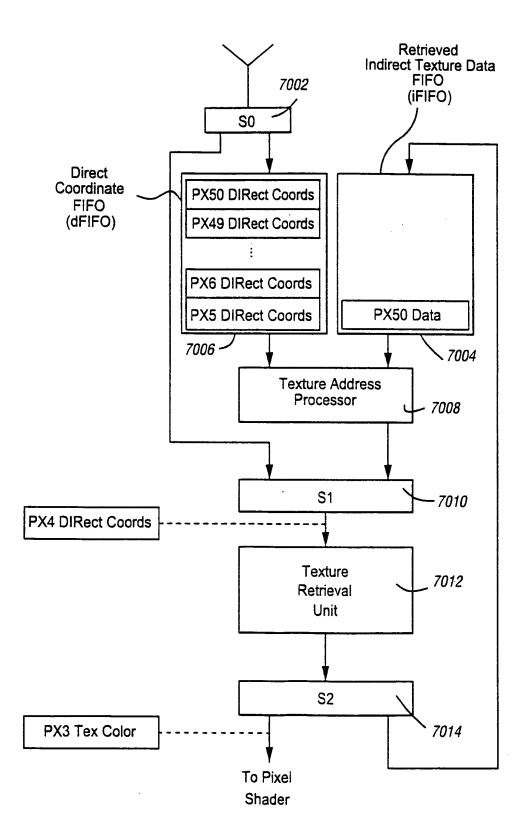


Fig. 10J

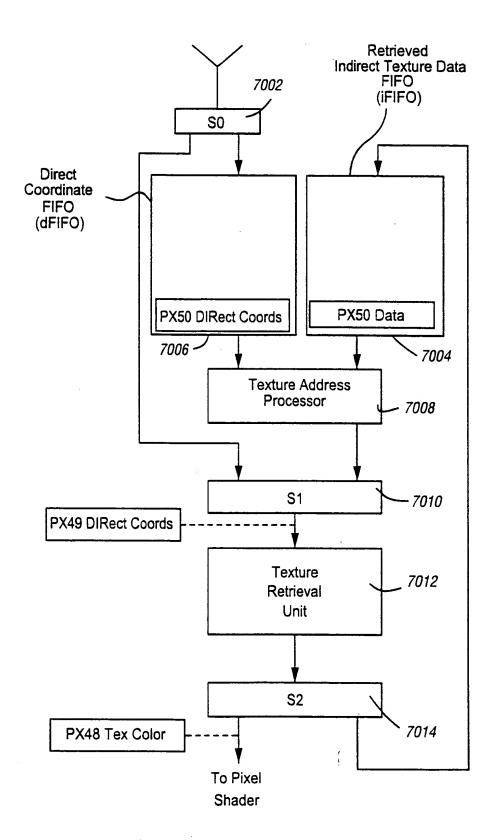


Fig. 10K

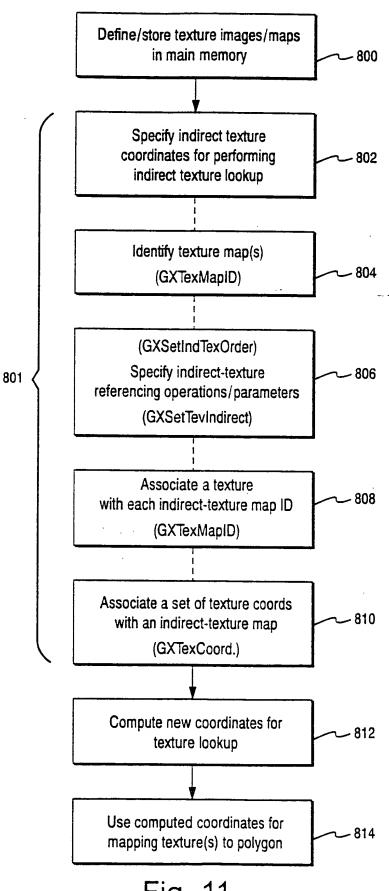


Fig. 11

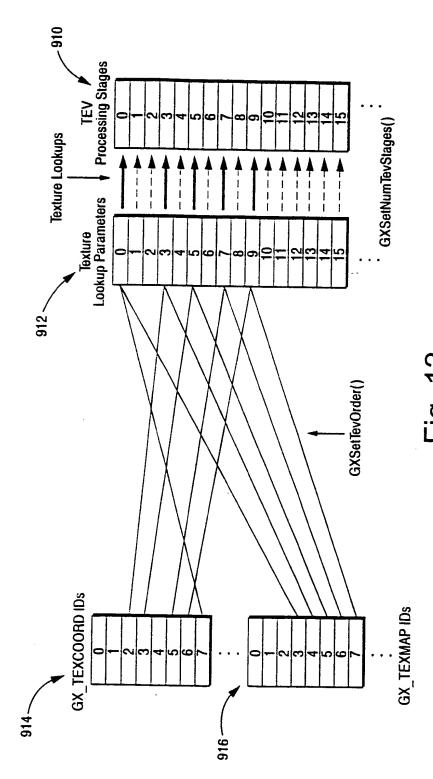
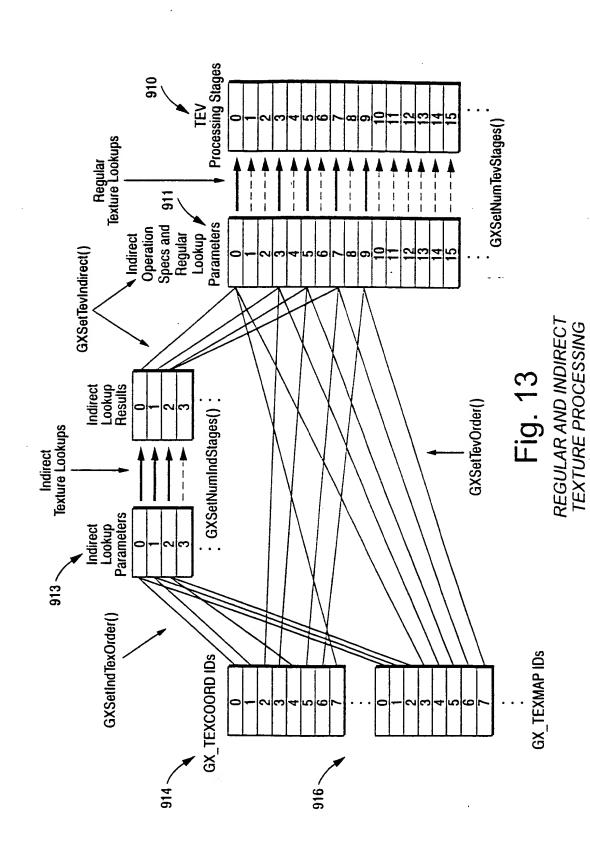


Fig. 12
REGULAR(NON-INDIRECT) TEXTURE PROCESSING



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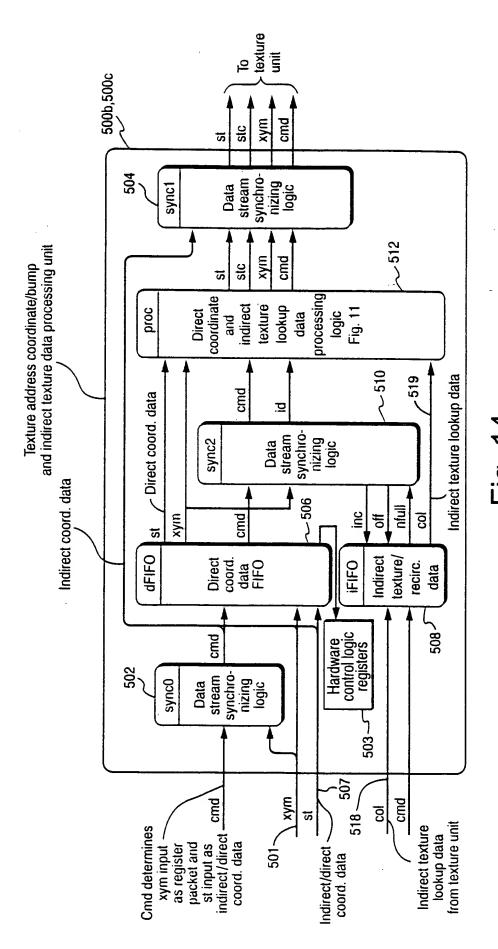


Fig. 14
EXAMPLE BUMP/TEXTURE
COORDINATE PROCESSING UNIT

1

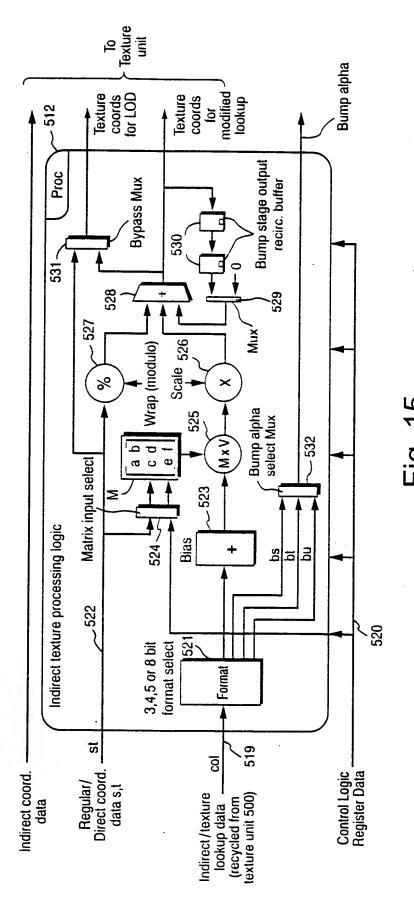


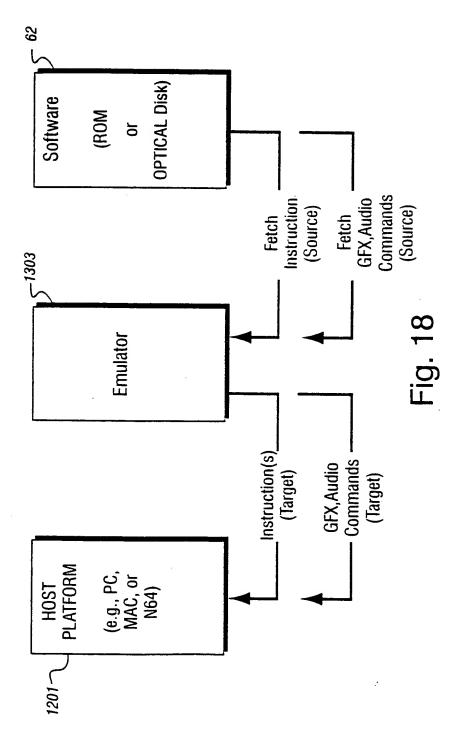
Fig. 15
EXAMPLE INDIRECT-TEXTURE
LOOKUP DATA PROCESSING LOGIC

 $\frac{\text{Matrix A}}{\text{s/256 t/256}}$ $\begin{pmatrix} s \\ 256 t \\ 256 \end{pmatrix}$ $\begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$ $\begin{pmatrix} s' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & md \\ me & mf \end{pmatrix} \cdot \begin{pmatrix} s \\ t \\ u \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & md \\ me & mf \end{pmatrix} \cdot \begin{pmatrix} s \\ t \\ u \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & md \\ me & mf \end{pmatrix} \cdot \begin{pmatrix} s \\ t \\ u \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & md \\ me & mf \end{pmatrix} \cdot \begin{pmatrix} s \\ t \\ u \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & md \\ me & mf \end{pmatrix} \cdot \begin{pmatrix} s \\ t \\ u \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & md \\ me & mf \end{pmatrix} \cdot \begin{pmatrix} s \\ t \\ u \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & md \\ me & mf \end{pmatrix} \cdot \begin{pmatrix} s \\ t \\ u \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & mf \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & mf \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & mf \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & mf \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & mf \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc & mf \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix}$ $\begin{pmatrix} s \\ t' \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ mc \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} \cdot \begin{pmatrix} s \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t' \end{pmatrix} = \begin{pmatrix} ma & mb \\ t' \\ t$

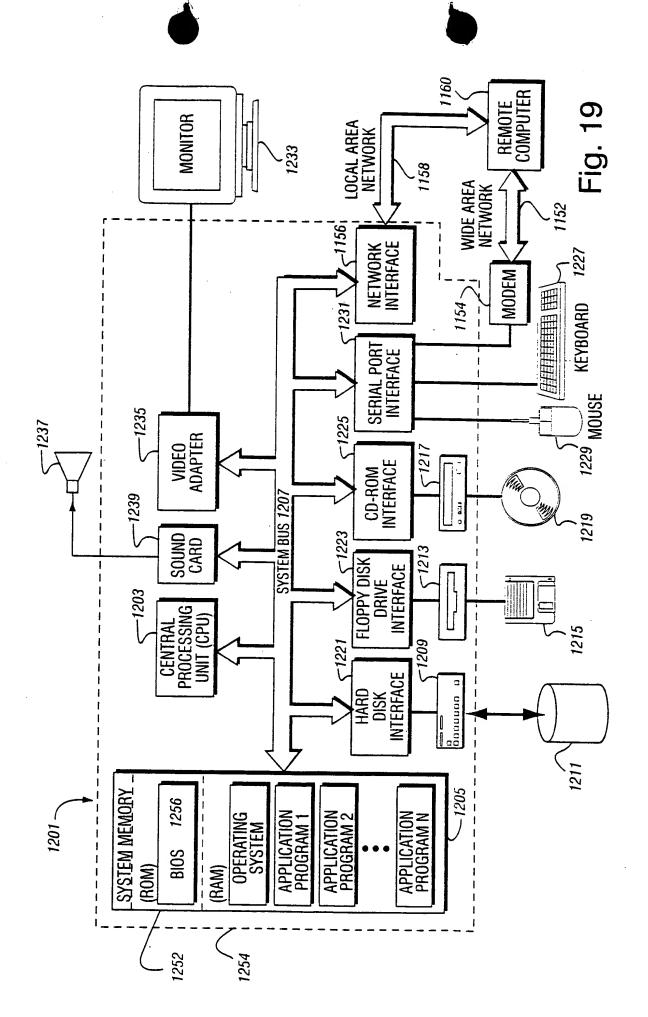
EXAMPLE TEXTURE OFFSET MATRICES

$MTXA_i$	s; (1:0)	mb _i (ma; (10:0)				
$MTXB_i$	s _i (3:2)	md _i (mc _i (10:0)				
$MTXC_i$	s _i (5:4)	mf _i (1	*	me _i (10:0)				
CMDi		fb _i tw _i	swi	m _i		oias _i	fmt_i	bti
	•							
	•							
	imas							
GEN MODE		nbmp		ntev		ntex		
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Fig. 17
EXAMPLE CONTROL
LOGIC REGISTERS



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